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6903-14

Tuesday, May 13, 1969

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B L A C K B O X

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Present:

The purpose of the visit was the finalization of the Black Box design, with special emphasis on the control points and method.

1. The first item to come up was the operators chair. The final one is in place and will require some drawing modifications. See attached sketch for dimensions and details. These should be incorporated into the working drawings before they go out for bid. It seems that overturn may be a problem because of a limited turn radius in the cockpit and no limit outside the cockpit.
2. The construction program was reviewed. August 1, 1969 start construction of Clean Room II. January 15, 1970 beneficial occupancy available. January 11, is the proposed check out, and possible changes and modifications. These hopefully will be in areas of temperature, power and control.
3. The pipes thru the foundation were discussed briefly.
4. The discomfort of the air velocity was discussed. Their system has a 5 fps velocity which is felt to be too high and is to be modified downward to 3 fps by changing the pulleys.
5. Their facility was discussed and completion has been slowed due to conditions beyond control. Tentatively, the test visit is planned for two days during the weeks of 7 or 14 July. Terry does not necessarily have to be present. We are going to test the room for temperature control and for cleanliness. The reason for the testing was discussed also. That is the establishment of the conditions under which it will operate in our building. They have no humidity control capability.
6. The control points of the two high velocity air jets came under scrutiny. Several alternatives were discussed. We decided that [] would install two Barrier Blocks downstream of the heat source and carry two low impedance leads to the back of the instrument. Our contractor would attach a 3500 ohm thermistor on the Barrier Block, attach a small screen cover open on two ends and apply the required amplification, signal conversion and other controls for proper modulation of the source equipment. (Send for [] Catalog (Springfield N.J.) (VECO 35 A 1 Thermistor R 8). We are to send the Barber Coleman Cone Thermostat time constant to Terry. The Barrier Blocks are by Cinch - Jones Series 172 in Allied Cat.

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May 13, 1969 continued

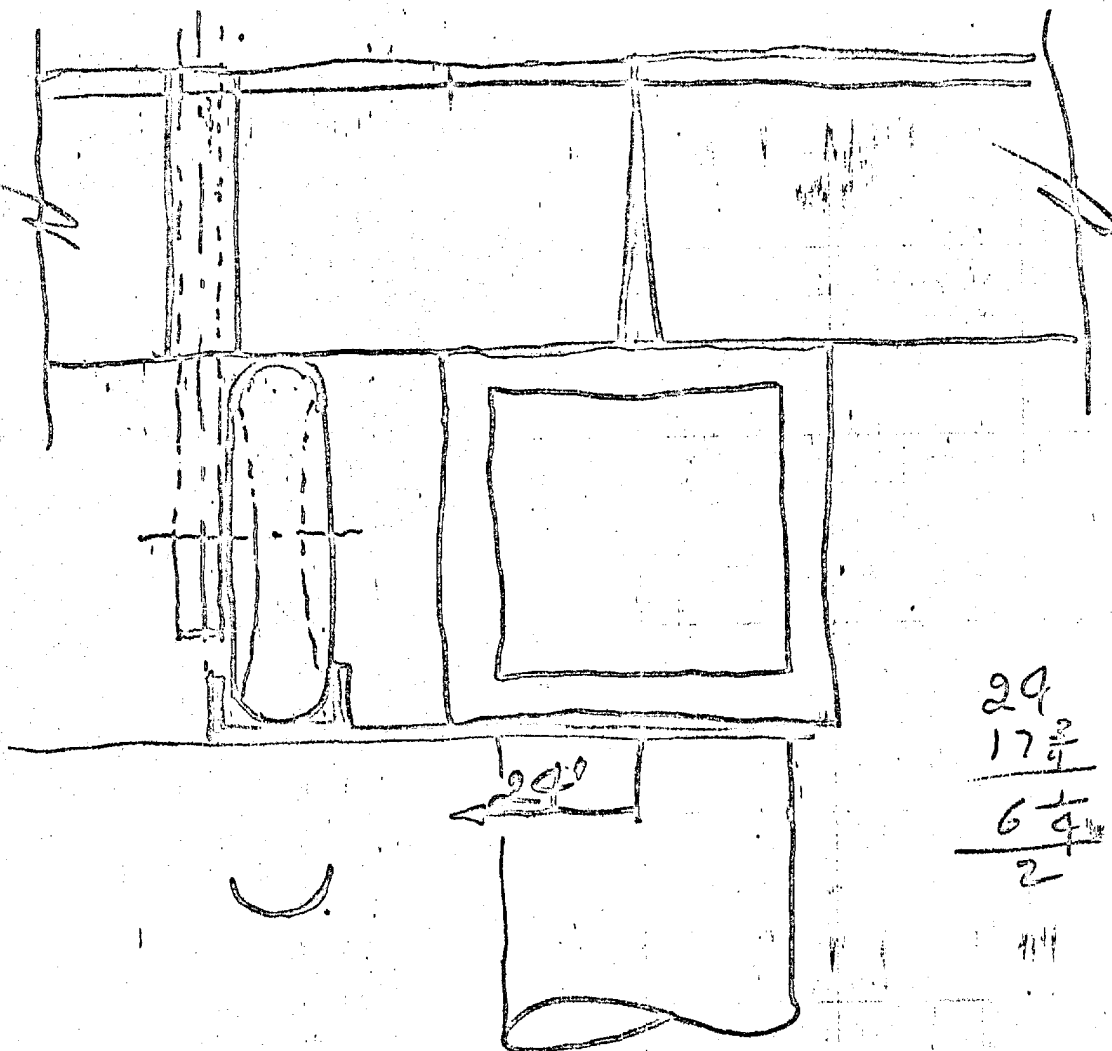
7. The Black Box and controls came into focus. Several ideas were discussed. The final plan is as follows:
We will have a 12 wire terminal block. (This includes the room controls for the Punka Reheat Coils). The other eight terminals will be from the thermistors that will control the black box outputs. Four may be all required, but we will have eight just in case. We will base the design of a thermistor by others with 3500 ohm resistance similar to those called out above.
8. We are to ascertain the time constant for the Barber Coleman Cone thermostat and send this information to [REDACTED]
9. The thermistor sensor should be investigated because of their inherent requirement for calibration. Most catalog items list plus or minus 25% for range in the .010 to .013 dia beads. We will probably require shunt or series resistors or T pads.
10. The black box compressor will have to have an oilless compressor.
11. The black box should have 50 cycle capability just in case. It will be needed in [REDACTED] September 1, 1969, F.O.B. [REDACTED] The shipping container should be suitable for re-use a minimum of five (5) times. Delivery to be by Air Freight. We will send two copies of the proposal to [REDACTED] for review and comment. The unit should have flow measuring devices for permanent indication (not recording). These should be pressure adjustment and pressure gages. One excellent gage with a manifold tap so it can be used for all readings.
12. We made the statement that the run-around electronic air system has a 1°F plus or minus temperature control capability.
13. We confirmed back door access to the space with an adjustable truck unloading dock device and a crane for straight lifting. Also, the ability to roll pneumatic packages to the use point for unpacking.
14. The requirement for security conduits and telephone conduits was discussed. These should be added to the drawings if required.

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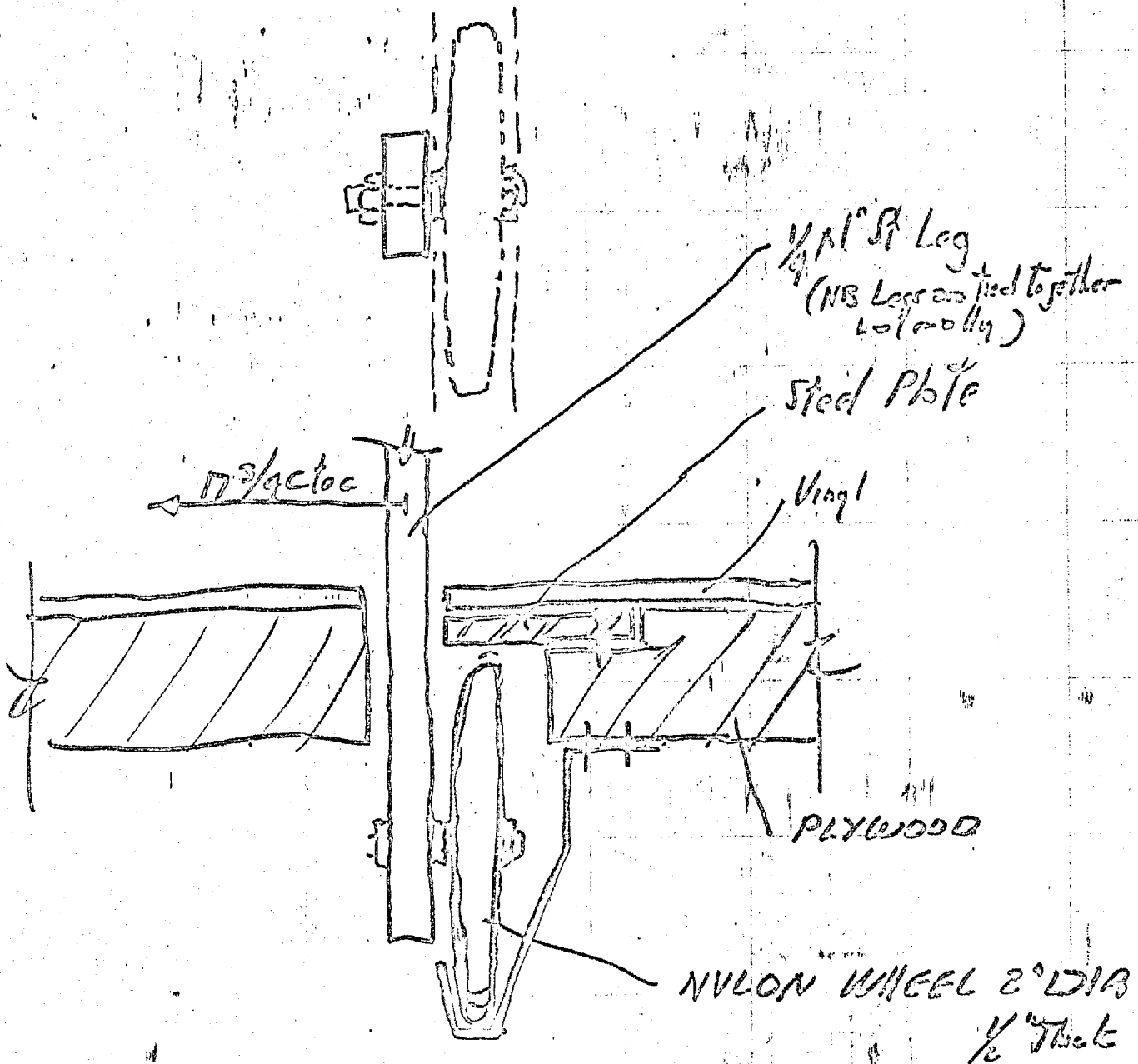
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Prosthetic Installation

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